

CLAIMS

1. A gas generator, comprising ignition means (10), a gas generating agent (50) ignited by said ignition means (10) for generating gas by combustion and a housing including a gas generating agent storage chamber filled with said gas generating agent therein while said housing is vertically held and fixed by a pair of platelike members (71, 72) arranged in parallel with each other,

further comprising a deformable area to be deformed to decrease the vertical outside dimension of said gas generator when fixed by said pair of platelike members (71, 72).

2. The gas generator according to claim 1, wherein said deformable area includes a plastic deformable area to be plastically deformed when held and fixed by said pair of platelike members (71, 72).

3. The gas generator according to claim 2, wherein at least either a top plate or a bottom plate vertically located on said housing includes an outwardly protruding projection (45), and said projection (45) constitutes said plastic deformable area.

4. The gas generator according to claim 3, wherein said projection (45) is provided on a part of said housing partitioning/forming said gas generating agent storage chamber.

5. The gas generator according to claim 3, wherein said housing includes an AC cup (40) storing said gas generating agent (50) and a holder (20) having a flange part (23) and a caulking part (24) for fixing said AC cup (40) on the periphery thereof for fixing said ignition means (10), and

said projection (45) is provided on the bottom surface of said AC cup (40) constituting the top place of said housing.

6. The gas generator according to claim 5, wherein
5 the inner surface of one of said pair of platelike members (71, 72) is in contact with the outer surface of planarly formed said flange part (23) while the inner surface of the other one of said pair of platelike members (71, 72) is in contact with said projection (45) provided on the bottom surface of said AC cup (40) in the state where said gas generator is held and fixed by said pair of platelike members (71, 72).

10 7. The gas generator according to claim 6, wherein
said AC cup (40) includes a side surface for deriving gas generated by combustion of said gas generating agent (50) diametrally from said housing by opening in working, and
15 at least one score extending in parallel with the axial direction of said housing, forming the starting point of said opening, is provided on said side surface.

8. The gas generator according to claim 1, wherein
said deformable area includes an elastic deformable area to be elastically
20 deformed when held and fixed by said pair of platelike members (71, 72).

9. The gas generator according to claim 8, wherein
at least either a top plate or a bottom plate vertically located on said housing includes a protrusion (46) having an outwardly protruding top face of a prescribed size,
25 and
said elastic deformable area is constituted of a part (47), enclosing said protrusion (46), of said top plate or said bottom plate provided with said protrusion (46).

10. The gas generator according to claim 9, wherein
said protrusion (46) is formed by press working, and
the upper end of said ignition means (10) is inserted into and positioned on a
recess (44) formed on the inner surface of said housing by said press working.

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11. The gas generator according to claim 9, further comprising a combustion
control member (30) located between said ignition means (10) and said gas generating
agent storage chamber for supplying directivity to a flame formed in said ignition means
(10), wherein

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said protrusion (46) is formed by press working,
the upper end of said combustion control member (30) is inserted into a recess
(47) formed on the inner surface of said housing by said press working, and
said ignition means (10) is inserted into and positioned in said combustion
control member (30).

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12. The gas generator according to claim 9, wherein
said housing includes an AC cup (40) storing said gas generating agent (50) and
a holder (20) having a flange part (23) and a caulking part (24) for fixing said AC cup
(40) on the periphery thereof for fixing said ignition means (10), and

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said protrusion (46) is provided on the bottom surface of said AC cup (40)
constituting the top plate of said housing.

13. The gas generator according to claim 12, wherein
the inner surface of one of said pair of platelike members (71, 72) is in contact
with the outer surface of planarly formed said flange part (23) while the inner surface of
the other one of said pair of platelike members (71, 72) is in contact with the top face of
said protrusion (46) provided on the bottom surface of said AC cup (40) when said gas
generator is held and fixed by said pair of platelike members (71, 72).

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14. The gas generator according to claim 13, wherein
said AC cup (40) includes a side surface for deriving gas generated by
combustion of said gas generating agent (50) diametrically from said housing by opening
5 in working, and

at least one score extending in parallel with the axial direction of said housing,
forming the starting point of said opening, is provided on said side surface.

15. The gas generator according to claim 8, further comprising an elastic
10 member (63) located on the outer surface of at least either a top plate or a bottom plate
vertically located on said housing, wherein

said elastic member (63) constitutes said elastic deformable area.